

### **ABSTRACT OF THE DISCLOSURE**

A method for measuring the degree of fiber concentration in a pulp in a machine, in particular a refiner for the manufacture of paper pulp, which machine includes a stator and an opposing rotor, which form a grinding gap for the pulp. The stator is provided with at least one sensor device, designed to interact with a rotor surface and including an impedance meter body with a sensor surface which impedance meter body is mounted in the stator in such a way that it can move axially. Measurements of the impedance between the rotor surface and the sensor surface are carried out during an axial movement of the impedance meter body and the measured impedance differences are utilized together with the size of the movement to determine the dielectric constant of the pulp, from which the degree of fiber concentration in the pulp is derived.